CW#69: Review Linear and Quadratic

Geometry

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

|  |  |
| --- | --- |
| Equation | y = 3x + 5 |
| Graph |  |

1.

|  |  |
| --- | --- |
| a. What does the x in the equation stand for? | b. What does the y in the equation stand for? |
| c. There is a 5 in the equation. Where do you see that 5 in the graph? Label it above. What does the 5 represent? | d. There is a 3 in the equation. Where do you see that 3 in the graph? Label it above.  What does the 3 represent? |
| e. Can you translate the equation y = 3x + 5 into words?   Fill in the blanks: As the number of \_\_\_ increases, the number of \_\_\_ increases by \_\_\_, starting from \_\_\_. | |

2.

|  |  |
| --- | --- |
|  | 1. What is the y-intercept of line A? 2. What is the y-intercept of line B? 3. What is the y-intercept of line C? 4. Write an equation in slope-intercept form for each line. |

3.

|  |  |
| --- | --- |
|  | 1. What is the slope of line A? Show math calculations. 2. What is the slope of line B? Show math calculations. 3. What is the slope of line C? Show math calcualations. 4. Write an equation for each line: 5. Describe the relationship between all three lines: |

|  |  |
| --- | --- |
| How can you tell a function is Linear? | Examples (label the key features) |
| Graph |  |
| Equation |  |
| How can you tell a function is Quadratic? | Examples (label key features) |
| Graph |  |
| Equation |  |